



What are the principal gaps between state-of-the-art FFR devices and user needs and requirements?

- Shape Conformance/Fit Test
 - Facial profiling
- Value of protection (eyeglasses, seatbelts)
 - Immediate Benefit
- Static device on a dynamic person
- In use assessments
- Validation that respirator is providing protection
- Proper hazard assessment



Which of these gaps can be adequately addressed by administrative procedures and which require new designs?

- Admin should create proper of value and use
 - support training and use (fit testing, training)
- Design
 - Communication Issue
 - Make fit testing less onerous
- Need to reuse
- Self decontaminating
- Elimination of fit testing



Which of the gaps requiring new designs require what types of new technologies?

- New technologies
 - Communication
 - Different materials
 - New ways to measure fit
 - NIOSH should include fit testing in addition to filtration efficiency to measure workplace protection
 - No fit test requirements
 - Proper fitting



Are there very near things that can be done to effect almost immediate improvements as to FFRs?

Low Hanging Fruit

- NIOSH should do fit testing as part of certification
- Share model-specific performance of respirators
 - Number and population distribution should be published
 - Establish procedure for dealing with ill-fitting stockpile
- Labeling standards
- Eliminate latex
- Improve test methods
- Instructions on product



What are the two/three most important things that NIOSH should do to support the development and use of advanced FFRs?

What can NIOSH do?

- Demonstrate effectiveness and need for respirators in health care
- Conduct and publish post market surveillance of respirator performance
- Publicize OSHA's guidelines on acquisition of respirators
- Model dynamic facial changes when respirator is used
- Sample inside of device for contamination
- Build on NIOSH's experience in other industries to create respirators for healthcare workers
- Fund workplace studies
- Simply N/P/R and 95/99/100 classification scheme